

MD 16 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
1 EACH	1 EACH	EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A SIZE 6" BASE MOUNTED CABINET
114 S.F.	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "EAST", MARYLAND 16, (RIGHT ARROW), 30" x 51", POLE MOUNTED HARDWARE
1 EACH	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "WEST", MARYLAND 16, (LEFT ARROW), 48" x 75", POLE MOUNTED HARDWARE
1 EACH	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "EAST", MARYLAND 16, (RIGHT ARROW), 30" x 51", POLE MOUNTED HARDWARE
1 EACH	1 EACH	ASSOCIATED SHIELD ASSEMBLY SIGN, "WEST", MARYLAND 16, (LEFT ARROW), 48" x 75", POLE MOUNTED HARDWARE
1 EACH	1 EACH	D3-1 DUAL FACED SIGN, "Egypt RD (RIGHT ARROW)", "(LEFT ARROW) Egypt RD", 16" x Var., MAST ARM MOUNTED HARDWARE
1 EACH	1 EACH	D3-1 DUAL FACED SIGN, "Chesapeake DR (RIGHT ARROW)", "(LEFT ARROW) Chesapeake DR (LEFT ARROW)", 16" x Var., MAST ARM MOUNTED HARDWARE

NOTES TO THE CONTRACTOR:

- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC, AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL NOTIFY MR. RICH BAKER OF TDDIS (410-787-7630) TO NOTIFY DELMARVA POWER AND LIGHT (1-410-860-6231) CONCERNING REMOVING THE EXISTING SERVICE FOR THE EXISTING HAZARD IDENTIFICATION BEACON (H.I.B.) ONCE THE INTERCONNECT HAS BEEN CONNECTED TO THE PROPOSED INTERSECTION CONTROL BEACON, AND SERVICE HAS BEEN TURNED ON.

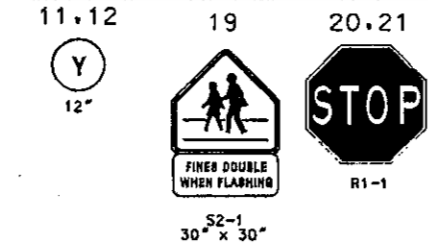
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5007	60 L.F.	F & I 5" YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
6004	9 S.F.	F & I 4" CONCRETE SIDEWALK
8006	2 EACH	CUT, CLEAN, AND CAP TRAFFIC SIGNAL STRUCTURE
8011	10 EACH	F & I 12" BLACK FACED VEHICULAR SIGNAL HEAD SECTION
8013	1 EACH	F & I 15" BRACKET ARM FOR SIGNAL STRUCTURE
8014	1 EACH	F & I 250 WATT HPS LUMINAIRE W/ PHOTOCELL
8020	1 EACH	F & I CONTROL AND DISTRIBUTION
8034	1 EACH	F & I TWIN MAST ARM POLE (50' / 60' MAST ARMS)
8038	1 EACH	F & I TWIN MAST ARM POLE (15' T) (50' / 70' MAST ARMS)
8042	1 EACH	INSTALL 3" CONDUIT IN THE EXISTING BASE
8051	700 L.F.	F & I 3" PVC SCHEDULE 80 CONDUIT - TRENCHED
8052	160 L.F.	F & I 4" PVC SCHEDULE 80 CONDUIT - BORED
8053	40 L.F.	F & I 4" PVC SCHEDULE 80 CONDUIT - TRENCHED
8057	12 C.Y.	F & I CONCRETE FOR SIGNAL FOUNDATION
8060	200 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8064	130 L.F.	F & I 3" SCHEDULE 80 RIGID PVC CONDUIT - BORED
8070	90 L.F.	F & I ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 AWG) - THHN/THWN
8072	7 EACH	F & I ELECTRICAL HANDHOLE
8074	71.3 S.F.	INSTALL GROUND MOUNTED SIGN
8075	42.7 S.F.	INSTALL OVERHEAD SIGN
8076	600 L.F.	F & I 12-PAIR COMMUNICATION CABLE, JELLY FILLED (UNDERGROUND)
8080	3 EACH	F & I GROUND ROD - 3/4" x 10'
8084	120 L.F.	F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)
8085	1,800 L.F.	F & I ELECTRICAL CABLE - 7-CONDUCTOR CABLE (NO. 14 AWG)
8086	230 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) - T/C
8093	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT

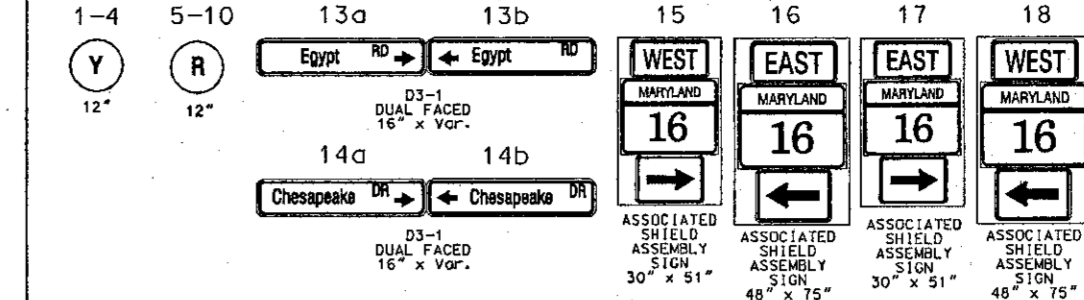
C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
		ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

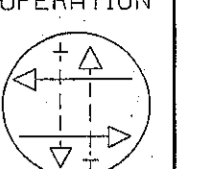
EXISTING SIGNALS & SIGNS



PROPOSED SIGNALS & SIGNS



FLASHING OPERATION



THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. GENE COPIELL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040

MR. JAMES R. WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 677-4010

MR. BRUCE W. POOLE
ASSISTANT DISTRICT ENGINEER - UTILITIES
PHONE: (410) 677-4082

MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652

CONSTRUCTION DETAILS:

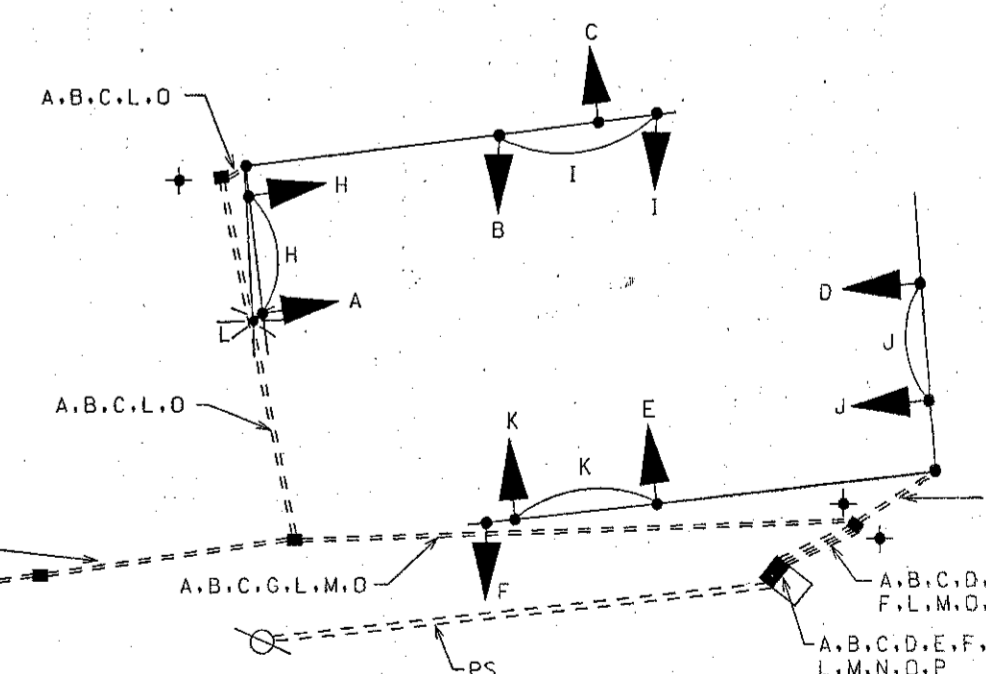
- INSTALL THE PROPOSED 15' SPECIAL T STEEL POLE WITH TWIN MAST ARMS (50' CUT DOWN TO 36 1/2' 70'), SIGNAL HEADS, ONE (1) 2" PVC SCHEDULE 80 CONDUIT BEND, ONE (1) 3" PVC SCHEDULE 80 CONDUIT BEND, FOUNDATION, AND SIGNS.
- INSTALL THE PROPOSED 27' STEEL POLE WITH TWIN MAST ARMS (50' CUT DOWN TO 32 1/2' 60'), SIGNAL HEADS, SIGNS, FOUNDATION, 15' LIGHTING W/ LUMINAIRE, ONE (1) 2" PVC SCHEDULE 80 CONDUIT BEND, AND ONE (1) 3" SCHEDULE 80 CONDUIT BEND.
- INSTALL THE PROPOSED HANDHOLE.
- INSTALL THE PROPOSED NEMA SIZE "6" BASE MOUNTED CABINET, AND CONTROLLER, TWO (2) 3" PVC SCHEDULE 80 CONDUIT BENDS, TWO (2) 4" PVC SCHEDULE 80 CONDUIT BENDS, CONCRETE PAD, CONTROL AND DISTRIBUTION, AND FOUNDATION.
- INSTALL THE PROPOSED 4" PVC SCHEDULE 80 CONDUIT (TRENCHED).
- INSTALL THE PROPOSED 3" PVC SCHEDULE 80 CONDUIT (BORED).
- INSTALL THE PROPOSED 4" PVC SCHEDULE 80 CONDUIT (BORED).
- INSTALL THE PROPOSED 5" WIDE PAVEMENT MARKING TAPE.
- INSTALL THE PROPOSED 3" PVC SCHEDULE 80 CONDUIT (TRENCHED).
- USE THE EXISTING H.I.B., AND INSTALL A 3" PVC CONDUIT IN THE EXISTING BASE.
- INSTALL A PROPOSED 3" PVC SCHEDULE 80 CONDUIT BEND AT THE BOTTOM OF THE UTILITY POLE (PROPOSED SERVICE).
- INSTALL A GROUND ROD IN THE PROPOSED HANDHOLE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10
Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R
Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

WIRING DIAGRAM

- A-G = 7-CONDUCTOR CABLE
H-K = 5-CONDUCTOR CABLE (NO. 14 AWG)
L = 2-CONDUCTOR CABLE (NO. 12 AWG) - T/C
M = 12-PAIR INTERCONNECT CABLE UNDERGROUND
N = 1-CONDUCTOR CABLE (NO. 4 AWG) - 3 TIMES
- FOR PROPOSED SERVICE
D-P = NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
PS = PROPOSED SERVICE
+ = GROUND ROD



REVISIONS

NO.	DESCRIPTION	DATE
1	11/28/01	
2	11/28/01	

APPROVALS

DESIGNED BY	11/28/01
CHECKED BY	11/28/01
DATE	11/28/01

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 16 and EGYPT ROAD/ CHESAPEAKE DRIVE CAMBRIDGE, MARYLAND	
DRAWN BY: CHECKED BY: SCALE: 1" = 20' DATE: 11/2001	F.A.P. NO. AC-STPG-2002(785)E S.H.A. NO. DO 521 A61 1651 COUNTY: DORCHESTER LOG MILE: 0901614.13
T.S. NO. TS-4136 T.I.M.S. NO. E835	SHEET NO. 1 OF 1